

Title (en)
TENSIONING AND RECOIL SYSTEM FOR A TRACKED VEHICLE.

Title (de)
RAUPENS Spann- UND RÜCKLAUFVORRICHTUNG.

Title (fr)
SYSTEME DE TENSION ET DE RAPPEL POUR VEHICULE CHENILLE.

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Application
EP 89904492 A 19890213

Priority
US 22268588 A 19880721

Abstract (en)
[origin: WO9000999A1] A tensioning and recoil system (28) establishes and maintains a substantially constant force on an idler wheel (18) of an endless track assembly (20) for a tracked vehicle (10). The force applied to the idler wheel (18) tensions the endless track (24) and maintains a predetermined frictional force between the track (24) and a powered drive wheel (16). The system (28) also provides a recoil function for the idler wheel (18) during ingestion of foreign material between the track (24) and the idler and drive wheels (16, 18). The tensioning and recoil system (28) includes a recoil tube (50) which telescopes into a cylinder (36) and a single sealed and closed chamber (56) filled with a compressible gas. The subject tensioning and recoil system differs from conventional recoil systems in that it (28) incorporates a compressible gas spring in place of the large coil steel spring of the prior art, thereby requiring less space, less weight, and simplified assembly and disassembly.

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